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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	IKKSGAWFAYN	312				
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEFVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEFVEIMYGGEGISKTGELLKIASDLDI	IKKAGAWYSYK	311			
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKAEFVEIITYGGEGISRTGELVKIASDLGI	IQKAGAWYSYN	311			
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYGGEGISRTGELVKIASDLDI	IQKAGAWFSYN	311			
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN.....D	MGNKTKIKVVKNKVAPPFR	TAEVDIMYGGEGISKEGEI	IDLGTELDIVQKSGSWYSYE	292		
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAEIKNGT.....D	MGNRARIKVVKNKVAPPFK	VAEVDIMYGGEGISRTGEL	VDMAVEKDI	INKSGSWYSYG	294	
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTKVKNKVA	APPFKAEVELALVYGGKGF	QDLSDLVGLAADMDI	IKKAGSFYSYG	307	
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVAT....L.KQN	EEPIGNRVKIKVVKNKVAPP	FRQAEFDVMFGEGLSREG	ELIDYGVKLDIVDKSGAW	FSYK	294	
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIAS....L.KQNE	EQHIGNRAKIKVVKNKVAPP	FRQAEFDIMFGEGISKEGE	EIDYGVKLDIVDKSGAW	LSYQ	296	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAA....L.KQNE	EQHIGNRAKIKVVKNKVAPP	FRQAEFDIMFGEGISKEGE	EIDYGVKLDIVDKSGAW	LSYQ	296	
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRLSDTGKIKDKS	GEVIGNRTKIKVVKNKVAPP	FKSAEFDIMYGGEGVSKV	GEILDVATDLDI	IQKSGSWFSYQ	307	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKKNVAPP	FRQAEFDILYGGEGISWEG	ELIDIGVKNDI	INKSGAWYSYN	294	
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKKNVAPP	FRQAEFDILYGGEGISWEG	ELIDIGVKNDI	INKSGAWYSYN	294	
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKKNVAPP	FRQAEFDILYGGEGISWEG	ELIDIGVKNDI	INKSGAWYSYN	294	
NTDB id 210200	BRW83	RS00185	WP 005882659.1	SVRLDIRRTGS....I.KSG	DEVIGSETRVKVVKNKTAPP	FKAEYFDILYGGEGTSREG	EIDLGVSEAKIVDKAGAW	YSYN	301	
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGS....I.KKG	DEVVGNETKIKVVKNKVAPP	FRQAEYFDILYGGAGVSRE	GEIIDLGVVAKVVEKSGAW	YSYN	302	
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGV....V.KDG	DEIIGSETKIKVVKNKVAPP	FRQAEFDIMYGGEGISRM	NELLILAEANGFI	IKKSGAWFSYD	310	
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVLGNETRIKVVKNKIAAP	FKAEANTQIMYGGGFNREG	ELIDLGVKHKMVEKSGAW	YSYN	293	
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVLGNETRIKVVKNKIAAP	FKAEANTQIMYGGGFNREG	ELIDLGVKHKMVEKSGAW	YSYN	293	
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGA....V.KEG	DEVVGNSETRVKVVKNKVAPP	FRQAEFI	LYGKGIYRNGEIDLGV	QQGLVEKSGAWYAYK	293	
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKIKVVKNKMAPP	FRQAEFI	LYGKGVNQLGELVDLAV	QQNIVQKAGAWYSYQ	293	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKIKVVKNKMAPP	FKAEIFI	LYGKGTNQLGELVDLAV	QQDIVQKAGAWYSYQ	293	
consensus				*! ! * * * ! * *	*	**	* * * * * ! * * ! ! * * ! ! * * ! ! * * * *	* * * * * ! * ! * * * * * * * * * *	* * * * * *	* * * * * ! * * * * * !

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 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
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 NTDB id 1123 OK783 RS03845 WP 003688695.1
 NTDB id 210200 BRW83 RS00185 WP 005882659.1
 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1205 PSJM300 05545 AFN77183.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1

consensus



DEKIGQGA EKAKNYLKEHQDVFD EIDHKVRAAHGL LDDSEVAETEEET . TASKTKAKAKKEEKAVETEEIELELED 387
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTEN . KKDE PKKEEA . . VNEEVPLDLGDELEI 384
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTEN . KKDE PKKEEA . . VNEEVPLDLGDELEI 384
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTEN . KKDE PKKEEA . . VNEEVPLDLGDELEI 384
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQDTEN . KKDE PKKEEA . . VNEEVPLDLGDELEI 384
 DEKIGQGS ENAKKYLADNPEVFAE IDHQVVRVQFGL IDGEEAAE S . KKDE VAQVDS . . VNEEVTLDLGDELEI 380
 DEKIGQGS ENAKKYLADNPEIFDE IDHQVVRVQFGL IDGEEIAE S . KKDE AAQVDS . . VNEEVTLDLGDELEI 380
 GEKIGQGS ENAKKFLADNPEIFDD IDHKVVRVQYGL IEEDNTEEKQSSK . EK ETDEK . . ADKNLVLELDDTIEL 381
 GEKIGQGS ENAKRYLADHPQLFDE IDRKVVRVKFGL LEESEEEESAMAVA . SE E TDDLALDLNGIEI 376
 EERLGGGREN AKQFLKENKDIMLMIQE QIREHYGL DNNGVVQQAAEET . QEEL . EFE . E . 348
 SERIGQGR ENAKNYLADHEDVEDEVRLKVR AAYGISD VPEEDLPTTED . E . QI . NILPDDST EE 355
 DERIGQGK EKTIA YTAERP EMEQEIRDRVMAAIRAGNAGEAPALAPAPAAP EAAEA . 363
 DKKLGQGR ENSKAFLKENPEIAD EITKAIQNSMG IEGMISG . . SEDDEGEE . 343
 DKKLGQGR ENAKALLKEDKALADEITLKI KESIGSNEEIMP . . LPDEPLEEME . 347
 DKKLGQGR ENAKALLKEDKALADEITLKI KESIGSNEEIMP . . LPDEPLEEME . 347
 DTKLGQGR DTVKELIKDNPELAELEAK IREKLQAK . 343
 GAKIGQGD NVRVWLKENPEISDE IDAKIRALNGVEMHITE . . GTQDET DGER PE E 348
 GAKIGQGD NVRVWLKENPEISDE IDAKIRALNGVEMHITE . . GTQDET DGER PE E 348
 GAKIGQGD NVRVWLKENPEISDE IDAKIRALNGVEMHITE . . GTQDET DGER PE E 348
 GEKIGQGD NARNYL RANPKLAREIENKVRASYGVREL PPI . . KDKEESAEEA K . 353
 GERIGQGR D NCREFLRENAELAREIENKVR EHLGVTMPGAV . . TLAEVEEED . 352
 GTKIGQGD KNNAVKWLKENPEIAD KLEQEIRNTL ASNPN SVL . . KATASDSNDES DVEEFSE EEL 372
 GDKIGQGD KANACKYLKENPEIAKTL DKKLREMLLN PENMQL . . IAETSSAAD DVEFGAVPE EF 354
 GDKIGQGD KANACKYLKENPEIAKTL DKKLREMLLN PENMQL . . IAETSSAAD DVEFGAVPE EF 354
 GSKIGQGD KANAACKYLEENPEIGQEIEQQ IRAKLLVTSANTK . . ATPVAEDLADADI . 347
 GNKIGQGD KNNVIRYLEENPQISTEIEAV IREQLLTKASDQT . . AA . HDETEE EPDLL . . ES . 349
 GNKIGQGD KNNVIRYFEENNQIAEEIERN IREQLLTTGTNGA . . VQ . I . EDEE EPDLL . . LE S 349

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NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
NTDB id 115 BSU 16940 NP 389576.2	348
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consensus

 non conserved
 similar
 ≥ 50% conserved